

Set Items Description

? E AU=SATO, YUKI O

Ref	Items	Index-term
E1	1	AU=SATO, YUKI NORI (ISHI KAWAJI MA HARI MA HEAVY INDU
E2	4	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
E3	746	*AU=SATO, YUKI O
E4	3	AU=SATO, YUKI O (HI ROSHI MA UNI V. (JAPAN). RESEARCH
E5	1	AU=SATO, YUKI O (NATI ONAL INST. OF RADIOLOGICAL SC
E6	1	AU=SATO, YUKI O (SHI MADZU CORP., KYOTO (JAPAN))
E7	7	AU=SATO, YUKI SHI GE
E8	50	AU=SATO, YUKI TA
E9	3	AU=SATO, YUKI TAKA
E10	1	AU=SATO, YUKI TERU
E11	21	AU=SATO, YUKI TO
E12	3	AU=SATO, YUKI TOM

Enter P or PAGE for more

? S E1-E12

1	AU=SATO, YUKI NORI (ISHI KAWAJI MA HARI MA HEAVY INDU
4	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
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3	AU=SATO, YUKI O (HI ROSHI MA UNI V. (JAPAN). RESEARCH
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7	AU=SATO, YUKI SHI GE
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1	AU=SATO, YUKI TERU
21	AU=SATO, YUKI TO
3	AU=SATO, YUKI TOM

S1 841 E1-E12

? S S1 AND GUANCOSI NE

841 S1
244765 GUANCOSI NE

S2 0 S1 AND GUANCOSI NE

? E AU=SATO, YUKI O

Ref	Items	Index-term
E1	1	AU=SATO, YUKI NORI (ISHI KAWAJI MA HARI MA HEAVY INDU
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E8	50	AU=SATO, YUKI TA
E9	3	AU=SATO, YUKI TAKA
E10	1	AU=SATO, YUKI TERU
E11	21	AU=SATO, YUKI TO
E12	3	AU=SATO, YUKI TOM

Enter P or PAGE for more

? S E1-E6

1	AU=SATO, YUKI NORI (ISHI KAWAJI MA HARI MA HEAVY INDU
4	AU=SATO, YUKI NORI (TOHOKU UNI V., SENDAI (JAPAN).
746	AU=SATO, YUKI O
3	AU=SATO, YUKI O (HI ROSHI MA UNI V. (JAPAN). RESEARCH
1	AU=SATO, YUKI O (NATI ONAL INST. OF RADIOLOGICAL SC
1	AU=SATO, YUKI O (SHI MADZU CORP., KYOTO (JAPAN))

S3 756 E1-E6

? S S3 AND GUANINE

756 S3

417680 GUANINE

S4 2 S3 AND GUANINE

? T S4/3, K/1-2

>>>KWC option is not available in file(s): 399

4/3, K/1 (Item 1 from file: 399)

DI ALCO R) File 399: CA SEARCH(R)

(c) 2010 American Chemical Society. All rts. reserv.

141388675 CA: 141(24)388675t PATENT

Guanine methylated oligo-DNA containing CpG motifs alleviates

collagen-induced arthritis in mice, use as immunosuppressant

INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko

LOCATION: Japan,

ASSIGNEE: Tai sho Pharmaceutical Co. Ltd.

PATENT: PCT International ; WO 200494448 A1 DATE: 20041104

APPLICATI ON: WO 2004JP5935 (20040423) *JP 2003118999 (20030423)

PAGES: 24 pp. CODEN: PI XXD2 LANGUAGE: Japanese

PATENT CLASSIFI CATI ONS:

CLASS: C07H 021/02A; C07H 021/04B; A61K 031/7115B; A61P 037/06B;

A61P 019/02B; A61P 043/00B; A61P 029/00B; A61P 003/10B; A61P 025/00B;

A61P 007/06B; A61P 021/04B; A61P 017/00B; A61P 001/04B; A61P 011/06B;

A61P 037/08B; A61P 031/04B; A61P 009/10B; C12N 015/11B

DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY; BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NZ; NA; NI; NO; OM; PG; PH; PL; PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US; UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW GH; GM KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZM; ZW AM AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MD; NL; PL; PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE; SN; TD; TG

4/3, K/2 (Item 1 from file: 32)

DI ALCO R) File 32: METADEX

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0001795392 I P ACCESSI ON NO. 200803-71-196556

Method for induci ng mucosal immunity

Sato, Yukio; Irisawa, Atsushi; Saito, Ayako; Kasukawa, Reiji

, USA

PUBLISHER URL:

http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u=/netacgi/nph-PTOsearch-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=6090791. PN.&CS=pn/6090791&RS=PN/6090791

DOCUMENT TYPE: Patent

RECORD TYPE: Abstract

LANGUAGE: English

FILE SEGMENT: Metadex

Sato, Yukio; Irisawa, Atsushi; Saito, Ayako; Kasukawa, Reiji

ABSTRACT:

... DNAs or oligonucleotides with DNA sequence containing a 2 base sequence of unmethylated cytosine and guanine adjacent thereto into

mammalian mucosal cells, mucosal immunity and CD4 positive T cells capable of ...

? E AU=KOBAYASHI, HI ROKO

Ref	Items	Index-term
E1	587	AU=KOBAYASHI, HI ROKAZU
E2	304	AU=KOBAYASHI, HI ROKI
E3	258	AU=KOBAYASHI, HI ROKO
E4	34	AU=KOBAYASHI, HI ROKUNI
E5	1	AU=KOBAYASHI, HI ROKUNI *
E6	118	AU=KOBAYASHI, HI ROMASA
E7	359	AU=KOBAYASHI, HI ROM
E8	175	AU=KOBAYASHI, HI ROM CHI
E9	2	AU=KOBAYASHI, HI ROM CHI P.
E10	27	AU=KOBAYASHI, HI ROM TSU
E11	1	AU=KOBAYASHI, HI ROMN
E12	3	AU=KOBAYASHI, HI ROMOTO

Enter P or PAGE for more

? S E1-E12

587	AU=KOBAYASHI, HI ROKAZU
304	AU=KOBAYASHI, HI ROKI
258	AU=KOBAYASHI, HI ROKO
34	AU=KOBAYASHI, HI ROKUNI
1	AU=KOBAYASHI, HI ROKUNI *
118	AU=KOBAYASHI, HI ROMASA
359	AU=KOBAYASHI, HI ROM
175	AU=KOBAYASHI, HI ROM CHI
2	AU=KOBAYASHI, HI ROM CHI P.
27	AU=KOBAYASHI, HI ROM TSU
1	AU=KOBAYASHI, HI ROMN
3	AU=KOBAYASHI, HI ROMOTO

S5 1869 E1-E12

? S S5 AND GUANI NE

1869	S5
417680	GUANI NE
S6 3	S5 AND GUANI NE

? T S6/3, K/1-6

>>>KW C option is not available in file(s): 399

6/3, K/1 (Item 1 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

(c) 2010 American Chemical Society. All rts. reserv.

144406432 CA: 144(22)406432e JOURNAL
 Roles of AFFRP1 (ADP-ribosylation factor-related protein 1) in post-Golgi
 membrane trafficking
 AUTHOR(S): Shin, Hye-Won; Kobayashi, Hiromi; Kitamura, Masashi; Waguri,
 Satoshi; Suganuma, Tatsuo; Uchiyama, Yasuo; Nakayama, Kazuhisa
 LOCATION: Department of Physiological Chemistry, Graduate School of
 Pharmaceutical Sciences, Kyoto University, Kyoto, Japan, 606-8501
 JOURNAL: J. Cell Sci. (Journal of Cell Science) DATE: 2005 VOLUME: 118
 NUMBER: 17 PAGES: 4039-4048 CODEN: JNCOSI ISSN: 0021-9533 LANGUAGE:
 English PUBLISHER: Company of Biologists Ltd.

6/3, K/2 (Item 2 from file: 399)

DI ALCO R) File 399: CA SEARCH R)

(c) 2010 American Chemical Society. All rts. reserv.

141388675 CA: 141(24)388675t PATENT
 Guanine methylated oligo-DNA containing CpG motifs alleviates
 collagen-induced arthritis in mice, use as immunosuppressant

10553948a.txt

INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko
LOCATION: Japan
ASSIGNEE: Tai sho Pharmaceutical Co. Ltd.
PATENT: PCT International ; WO 200494448 A1 DATE: 20041104
APPLICATION: WO 2004JP5935 (20040423) JP 2003118999 (20030423)
PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: Japanese
PATENT CLASSIFICATION:
CLASS: C07H 021/02A; C07H 021/04B; A61K 031/7115B; A61P 037/06B;
A61P 019/02B; A61P 043/00B; A61P 029/00B; A61P 003/10B; A61P 025/00B;
A61P 007/06B; A61P 021/04B; A61P 017/00B; A61P 001/04B; A61P 011/06B;
A61P 037/08B; A61P 031/04B; A61P 009/10B; C12N 015/11B
DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
GE; GH; GM; GR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; MZ;
SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;
BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;
PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE;
SN; TD; TG

6/3, K/3 (Item 3 from file: 399)
DIALOG(R) File 399: CA SEARCH(R)
(c) 2010 American Chemical Society. All rts. reserv.

134220571 CA: 134(16)220571n JOURNAL
Mutation analysis of Gs.alpha., adrenocorticotropin receptor and p53
genes in Japanese patients with adrenocortical neoplasms: Including a
case of Gs.alpha. mutation
AUTHOR(S): Kobayashi, Hiromasa; Usui, Takeshi; Fukata, Junichi;
Yoshimasa, Takaaki; Oki, Yutaka; Nakao, Kazuwa
LOCATION: Department of Medicine and Clinical Science, Kyoto University
Graduate School of Medicine, Kyoto, Japan, 606-8507
JOURNAL: Endocr. J. (Tokyo) DATE: 2000 VOLUME: 47 NUMBER: 4 PAGES:
461-466 CODEN: ENUEO ISSN: 0918-8959 LANGUAGE: English PUBLISHER:
Japan Endocrine Society

? t s8/3, k/1-15
>>>KW C option is not available in file(s): 399

8/3, K/1 (Item 1 from file: 5)
DIALOG(R) File 5: Bi ois s Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.

0019972344 BIOSIS NO.: 200800019283
MGMT germline polymorphisms associated with somatic MGMT promoter
methylation and gene silencing in colorectal cancer
AUTHOR: Ogino Shuji (Reprint); Hazra Aditi; Tranah Gregory J; Kirkner
Gregory J; Kawasaki Takako; Noshio Katsuhiko; Ohnishi Mitsuko; Suemoto
Yuko; Meyerhardt Jeffrey A; Hunter David J; Fuchs Charles S
AUTHOR ADDRESS: Dana Farber Canc Inst, Dept Med Oncol, Boston, MA 02115 USA
**USA
AUTHOR E-MAIL ADDRESS: shuji.ogino@fci.harvard.edu
JOURNAL: Carcinogenesis (Oxford) 28 (9): p1985-1990 SEP 2007 2007
ITEM IDENTIFIER: doi:10.1093/carcin/bgm160
ISSN: 0143-3334
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

ABSTRACT: O-6-methylguanine-DNA methyltransferase (MGMT) repairs
Page 4

10553948a.txt

inappropriately methylated guanine residues in DNA. MGMT promoter methylation and gene silencing are common events in colorectal cancer, and may or may not co-exist with the CpG island methylator phenotype (CIMP). To date, no study has examined the relationship between MGMT promoter...

...MGMT in colorectal cancer. Our data provide compelling evidence for common susceptibility for MGMT promoter CpG island and methylation.

8/3, K/2 (Item 2 from file: 5)
DIALOG R File 5: Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.

12104241 BIOSIS NO.: 199497125526
Inhibition of human O-6-methylguanine-DNA methyltransferase by 5-methylcytosine

AUTHOR: Bentivegna S Stephen; Bresnick Edward (Reprint)
AUTHOR ADDRESS: Dep. Pharmacol. Toxicol., Norris Cotton Cancer Cent., Dartmouth Med. Sch., Hanover, NH 03755-3835, USA**USA

JOURNAL: Cancer Research 54 (2): p327-329 1994 1994

ISSN: 0008-5472

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: English

ABSTRACT: The ability of cloned human O-6-methylguanine-DNA methyltransferase to repair a methylated guanine in a CpG-containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

...incorporating 5-methylcytosine (5mC) and O-6-methylguanine (O-6mG) in various combinations in a CpG site were 5' labeled with 32P and incubated with recombinant O-6-methylguanine-DNA methyltransferase... compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...

...the rate slightly. These results suggest that O-6-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3, K/3 (Item 3 from file: 5)
DIALOG R File 5: Biosis Previews(R)
(c) 2010 The Thomson Corporation. All rts. reserv.

09758456 BIOSIS NO.: 198988073571
A PARTIAL METHYLATION PROFILE FOR A CPG SITE IS STABLY MAINTAINED IN MAMMALIAN TISSUES AND CULTURED CELL LINES

AUTHOR: TURKER M S (Reprint); SWISSELM K; SMITH A C; MARTIN G M
AUTHOR ADDRESS: DEP PATHOL, MARKEY CANCER CENT, UNIV KENTUCKY COLL MED, LEXINGTON, KENTUCKY 40536, USA**USA

JOURNAL: Journal of Biological Chemistry 264 (20): p11632-11636 1989

ISSN: 0021-9258

DOCUMENT TYPE: Article

RECORD TYPE: Abstract

LANGUAGE: ENGLISH

A PARTIAL METHYLATION PROFILE FOR A CPG SITE IS STABLY MAINTAINED IN MAMMALIAN TISSUES AND CULTURED CELL LINES

ABSTRACT: We wished to determine if a partial methylation profile for a
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specific CpG site was stably maintained in both mammalian tissues and cultured cell lines. To accomplish this, we identified a CpG site with a partial methylation profile located upstream of the mouse adenine phosphoribosyltransferase promoter region...

...methylation profiles were not altered during aging. A methylation profile of approximately 25% at this CpG site was also observed in five mouse teratocarcinoma stem cell lines and one additional cultured...

...in some of the cultured cell lines. We conclude that partial methylation of a specific CpG site can be stably maintained both in vivo and in vitro and that a mechanism...

DESCRIPTORS: MOUSE BRAIN KIDNEY LUNG SKELETAL MUSCLE TESTIS DNA CYTOSINE METHYLATION GUANINE

8/3/K/4 (Item 1 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
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0002940646 IP ACCESSION NO: 6676633
DNA methylation in neuroblastic tumors

Banelli, Barbara; Di Vinci, Angela; Gelvi, Ilaria; Casciano, Ida;
Alleranni, Giorgio; Bonassi, Stefano; Romani, Massimo
Laboratory of Tumor Genetics, Istituto Nazionale per la Ricerca sul Cancro
- IIST Genova, Largo Rosanna Benzi 10, 16132 Genova, Italy,
[mailto:massimo.romani@istge.it]

Cancer Letters, v 228, n 1-2, p 37-41, October 2005
PUBLICATION DATE: 2005

PUBLISHER: Elsevier Science Ltd., The Boulevard Langford Lane Kidlington
Oxford OX5 1GB UK, [mailto:usinfo-f@elsevier.com],
[URL: http://www.elsevier.nl]

DOCUMENT TYPE: Journal Article; Review
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English
ISSN: 0304-3835
FILE SEGMENT: CSA Neurosciences Abstracts

DESCRIPTORS: CpG islands; Cytosine; DNA methylation;
Guanine; Neuroblastoma; Oncogenes; Promoters; Reviews;
Transcription; Tumor suppressor genes; epigenetics

8/3/K/5 (Item 2 from file: 24)
DIALOG(R) File 24: CSA Life Sciences Abstracts
(c) 2010 CSA. All rights reserved.

0001410912 IP ACCESSION NO: 3637073
Inhibition of human O super (6)-methylguanine-DNA methyltransferase by
5-methylcytosine

Bentivegna, SS; Bresnick, E
Dep. Pharmacol. and Toxicol., Dartmouth Med. Sch., Hanover, NH 03755-3835,
USA

Cancer Research, v 54, n 2, p 327-329, 1994
ADDL SOURCE INFO: Cancer Research [CANCER RES.], vol. 54, no. 2, pp.
327-329, 1994

PUBLICATION DATE: 1994

DOCUMENT TYPE: Journal Article
 RECORD TYPE: Abstract
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ISSN: 0008-5472
 FILE SEGMENT: Nucleic Acids Abstracts

ABSTRACT:

The ability of cloned human O super(6)-methyl guanine-DNA methyltransferase to repair a methylated guanine in a CpG -containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

...5mC) and O super(6)-methyl guanine (O super(6)mG) in various combinations in a CpG site were 5' labeled with super(32)P and incubated with recombinant O super(6)...

...compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...

...rate slightly. The results suggest that O super(6)-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3, K/6 (Item 3 from file: 24)
 DI ALCO (R) File 24: CSA Life Sciences Abstracts
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0000871051 IP ACCESSION NO: 2162661
 Losses of CpG dinucleotides from DNA. IV. Methylation and divergence of genes and pseudogenes of low-molecular-weight nuclear RNAs.

Mazin, AL; Vanuyshin, BF
 A. N. Belozerskii Interfac. Sci. Res. Problem Lab. Mol. Biol. and Bioorg. Chem., M. V. Lomonosov Moscow State Univ., Moscow, USSR

Molecular Biology/Molekulyarnaya Biologiya (Moscow), v 21, n 4, p 914-923, 1988
 ADDL SOURCE INFO: Molecular Biology [MOL. BIOL.], vol. 21, no. 4, pt. 2, pp. 914-923, 1988
 PUBLICATION DATE: 1988

DOCUMENT TYPE: Journal Article
 RECORD TYPE: Abstract
 LANGUAGE: English
 SUMMARY LANGUAGE: English
 ISSN: 0026-8984
 FILE SEGMENT: Nucleic Acids Abstracts; Genetics Abstracts
 Losses of CpG dinucleotides from DNA. IV. Methylation and divergence of genes and pseudogenes of low-molecular-weight...

ABSTRACT:

... various species of eukaryotes was determined using a computer. The probable frequency of mutational substitutions CpG arrow right TpG + CpA, arising as a result of deamination of the 5-methyl cytosine residues...

...established that the genes of 1mRNA do not possess a single type of methylation of CpG for all the species studied. Methylation of CpG sharply accelerates the rates of divergence of the DNA sequences.

It is concluded that one...

IDENTIFIERS: cytosine; dinucleotide; methylation; guanine

8/3, K/7 (Item 1 from file: 34)
 DIALOG File 34: Sci Search(R) Cited Ref Sci
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13945503 Genuine Article#: 925FP No. References: 32
 Title: O-6-methylguanine methyltransferase in colorectal cancers: detection of mutations, loss of expression, and weak association with G:C>A: T transitions
 Author: Halford S; Rowan A; Sawyer E; Talbot I; Tomlinson I (REPRINT)
 Author Email Address: ian.tomlinson@cancer.org.uk
 Corporate Source: St Marks Hosp, Colorectal Canc Unit, Canc Res UK, Watford Rd/Harrow HA1 3UK/Mddx/England/ (REPRINT); St Marks Hosp, Colorectal Canc Unit, Canc Res UK, Harrow HA1 3UK/Mddx/England/; Canc Res UK, London Res Inst, Mol & Populat Genet Lab, London/England/
 Journal: GUT, 2005, V54, N6 (JUN), P797-802
 ISSN: 0017-5749 Publication Date: 20050600
 Publisher: B M J PUBLISHING GROUP, BRITISH MED ASSOC HOUSE, TAVISTOCK SQUARE, LONDON WC1H 9JR, ENGLAND
 Language: English Document Type: ARTICLE (ABSTRACT AVAILABLE)

Abstract: Background and aims: O-6-methylguanine methyltransferase (MGMT) repairs inappropriately methylated guanine in DNA. MGMT mutations have not previously been reported in cancers, but in colorectal tumours.

...Identifiers: K-RAS ONCOGENE; PROMOTER HYPERMETHYLATION; CPG ISLAND; O-6-ALKYLGUANINE-DNA ALKYLTRANSFERASE; MISMATCH REPAIR; CELL-LINES; GENE; METHYLATION; TUMOR GENESIS; TRANSCRIPTION

8/3, K/8 (Item 1 from file: 45)
 DIALOG File 45: EMCare
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0005623231 EMCARE No: 354972154
 Virus-host coevolution: Common patterns of nucleotide motif usage in Flaviviridae and their hosts
 Lobo F.P.; Mota B.E.F.; Pena S.D.J.; Azevedo V.; Macedo A.M.; Tauch A.; Machado C.R.; Franco G.R.
 Departamento de Bioquímica e Imunologia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
 AUTHOR EMAIL: franciscolobo@mail.com
 CORRESP. AUTHOR/AFFILI: Lobo F.P.; Departamento de Bioquímica e Imunologia, Universidade Federal de Minas Gerais, Belo Horizonte, Minas Gerais, Brazil
 CORRESP. AUTHOR EMAIL: franciscolobo@mail.com

PLoS ONE (PLoS ONE) (United States) July 20, 2009, 4/7
 PUBLISHER: Public Library of Science
 eISSN: 1932-6203
 DOI: 10.1371/journal.pone.0006282
 URL:

http://www.plosone.org/article/attachment.action?uri=info%3Adoi%2F10.1371%2Fjournal.pone.0006282&representation=PDF

ARTICLE NUMBER: e6282

DOCUMENT TYPE: Journal: Article RECORD TYPE: Abstract

LANGUAGE: English SUMMARY LANGUAGE: English

NUMBER OF REFERENCES: 90

...types. The two host groups possess very distinctive dinucleotide and codon usage patterns. A pronounced CpG under-representation was found in the vertebrate group, possibly induced by the methylation-deamination process...

...nucleotide motif usage in a host-specific manner. Vertebrate-infecting viruses possessed under-representation of CpG and TpA, and insect-only viruses displayed only a TpA under-representation bias. Single-host...

DESCRIPTORS:

adenine; article; codon usage; CpG island; cytosine; deamination; dinucleotide; DNA methylation; guanine; Hepatitis C virus; host; host range; human; immune system; insect; insect genome; invertebrate; mammal; molecular...

8/3/K/9 (Item 1 from file: 144)
DIALOG(R) File 144: Pascal
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10791194 PASCAL No.: 93-0300550
Effect of 5-methylcytosine as a neighboring base on methylation of DNA
guanine by N-methyl-N-nitrosourea
MATHISON B H; SAID B; SHANK R C
Univ. California Irvine, dep. community environmental medicine,
environmental toxicology program Irvine CA 92717, USA
Journal: Carcinogenesis: (New York), 1993, 14 (2) 323-327
Language: English

... cytosine or 5-methylcytosine (5mC) using a Maxam-Gilbert sequencing technique. Cytosine methylation in 5'-CpG-3' pairs within a subcloned fragment of the 5' region of the human HPRT gene...

English Descriptors: Carcinogen; Toxicity; In vitro; DNA; Methylation; Guanine; Cytosine; Nucleotide sequence

French Descriptors: Carcinogène; Toxicité; In vitro; DNA; Urée(1-méthyl-1-nitroso); Méthylation; Guanine; Cytosine; Séquence nucléotidique; Cytosine(5-méthyl)

8/3/K/10 (Item 1 from file: 155)
DIALOG(R) File 155: MEDLINE(R)
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33461748 PM D: 20367604
Interaction of murine dnmt3a with DNA containing o6-methylguanine.
Maltseva D V; Gromova E S
Faculty of Chemistry and Belozersky Institute of Physico-Chemical
Biology, Lomonosov Moscow State University, Moscow, 119991, Russia.
Biochemistry. Biokhimiia (United States) Feb 2010, 75 (2) p173-81,
ISSN 1608-3040--Electronic 0006-2979--Linking Journal Code: 0376536
Publishing Model Print
Document type: Journal Article; Research Support, Non-U.S. Gov't;
Research Support, U.S. Gov't, Non-P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

... also by alteration in enzymatic methylation of the C5 carbon atom of cytosine residue in CpG sequences. In this study, the effect of
Page 9

Q(6)meG on DNA methylation by the...

... to the presence of Q(6)meG in DNA substrate than prokaryotic M¹ase SssI recognizing CpG

.... Catalytic Domain; Cytosine--metabolism--ME; DNA--genetics--GE; DNA (Cytosine-5-)-Methyltransferase--chemistry--CH; DNA Methylation; Guanine--metabolism--ME; Kinetics; Mice

8/3, K/11 (Item 2 from file: 155)
DIALOG R File 155: MEDLINE(R)
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11028486 PM D: 8275462
Inhibition of human C6-methylguanine-DNA methyltransferase by 5-methylcytosine.
Bentivegna S S; Bresnick E
Department of Pharmacology and Toxicology, Dartmouth Medical School, Hanover, New Hampshire 03755-3835.
Cancer research (UNITED STATES) Jan 15 1994, 54 (2) p327-9, ISSN 0008-5472--Print 0008-5472--Linking Journal Code: 2984705R
Contract/Grant No.: CA 09658; CA; NCI NIH HHS United States; CA 36679; CA ; NCI NIH HHS United States
Publishing Model: Print
Document type: Journal Article; Research Support, U.S. Gov't, P.H.S.
Languages: ENGLISH
Main Citation Owner: NLM
Record type: MEDLINE; Completed

The ability of cloned human C6-methylguanine-DNA methyltransferase to repair a methylated guanine in a CpG-containing sequence, i.e., island, was studied by using a synthetic double-stranded 20-mer...

... stranded oligonucleotides incorporating 5-methylcytosine (5mC) and C6-methylguanine (C6mG) in various combinations in a CpG site were 5' labeled with 32P and incubated with recombinant C6-methylguanine-DNA methyltransferase. The...

... compared to the oligomer that included a 5mC adjacent in the 5'-position to the methylated guanine. The reduction in substrate activity ranged from 75% (modified p53 sequence) to 100% (in the...)

... reduced the rate slightly. These results suggest that C6-methylation of the guanine moiety at CpG islands may not be efficiently repaired when normal 5mC is present and this may contribute...

8/3, K/12 (Item 1 from file: 399)
DIALOG R File 399: CA SEARCH(R)
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143147712 CA: 143(9)147712p PATENT
Methylation analysis on CpG region of C6-methylguanine-DNA methyltransferase (MGMT) gene by PCR with methylation-specific and non-specific primers
INVENTOR(AUTHOR): Nagasaka, Takeshi; Matsubara, Nagahide; Tanaka, Noriaki
LOCATION: Japan.
PATENT: Japan Kokai Tokkyo Koho; JP 2005192421 A2 DATE: 20050721
APPLICATION: JP 2003435631 (20031226)
PAGES: 23 pp. CODEN: JKXXAF LANGUAGE: Japanese
PATENT CLASSIFICATIONS:
CLASS: C12N 015/09A; C12Q 001/68B

8/3/K/13 (Item 2 from file: 399)
 DI ALOG(R) File 399: CA SEARCH(R)
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141388675 CA: 141(24)388675t PATENT
 Guanine methylated oligo-DNA containing CpG motifs alleviates
 collagen-induced arthritis in mice, use as immunosuppressant
 INVENTOR(AUTHOR): Sato, Yukio; Kobayashi, Hiroko
 LOCATION: Japan,
 ASSIGNEE: Tai sho Pharmaceutical Co. Ltd.
 PATENT: PCT International ; WO 200494448 A1 DATE: 20041104
 APPLICATION: WO 2004JP5935 (20040423) *JP 2003118999 (20030423)
 PAGES: 24 pp. CODEN: PIXXD2 LANGUAGE: Japanese
 PATENT CLASSIFICATION:
 CLASS: C07H-021/02A; C07H-021/04B; A61K-031/7115B; A61P-037/06B;
 A61P-019/02B; A61P-043/00B; A61P-029/00B; A61P-003/10B; A61P-025/00B;
 A61P-007/06B; A61P-021/04B; A61P-017/00B; A61P-001/04B; A61P-011/06B;
 A61P-037/08B; A61P-031/04B; A61P-009/10B; C12N-015/11B
 DESIGNATED COUNTRIES: AE; AG; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BW; BY;
 BZ; CA; CH; CN; CO; CR; CU; CZ; DE; DK; DM; DZ; EC; EE; EG; ES; FI; GB; GD;
 GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS;
 LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; MZ; NA; NI; NO; NZ; OM; PG; PH; PL;
 PT; RO; RU; SC; SD; SE; SG; SK; SL; SY; TJ; TM; TN; TR; TT; TZ; UA; UG; US;
 UZ; VC; VN; YU; ZA; ZM; ZW DESIGNATED REGIONAL: BW; GH; GM; KE; LS; MW; NZ;
 SD; SL; SZ; TZ; UG; ZM; ZW AM; AZ; BY; KG; KZ; MD; RU; TJ; TM; AT; BE;
 BG; CH; CY; CZ; DE; DK; EE; ES; FI; FR; GB; GR; HU; IE; IT; LU; MC; NL; PL;
 PT; RO; SE; SI; SK; TR; BF; BJ; CF; CG; CI; CM; GA; GN; GQ; GW; ML; MR; NE;
 SN; TD; TG

8/3/K/14 (Item 3 from file: 399)
 DI ALOG(R) File 399: CA SEARCH(R)
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141293494 CA: 141(18)293494u JOURNAL
 Influence of CpG island methylation status in O6-methylguanine-DNA
 methyltransferase expression on oral cancer cell lines
 AUTHOR(S): Murakami, Jun; Asami, Jun-ichi; Maki, Yuu; Tsujigiwa,
 Hietsugu; Nagatsuka, Hitoshi; Koikeguchi, Susumu; Inoue, Tetsuyoshi;
 Kawasaki, Shoji; Tanaka, Noriaki; MacPhee, Donald; Matsubara, Nagahi de;
 Kishi, Kanji
 LOCATION: Departments of Oral and Maxillofacial Radiology, Okayama
 University Graduate Schools of Medicine and Dentistry, Okayama, Japan,
 JOURNAL: Oncol. Rep. (Oncology Reports) DATE: 2004 VOLUME: 12 NUMBER:
 2 PAGES: 339-345 CODEN: CORPEW ISSN: 1021-335X LANGUAGE: English
 PUBLISHER: Oncology Reports

8/3/K/15 (Item 1 from file: 135)
 DI ALOG(R) File 135: NewsRx Weekly Reports
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0000686312 (USE FORMAT 7 OR 9 FOR FULLTEXT)
 Data on colon cancer genetics discussed by researchers at Dana-Farber
 Cancer Institute, Department of Medical Oncology
 Cancer Weekly, November 20, 2007, p.331

DOCUMENT TYPE: Expanded Reporting LANGUAGE: English
 RECORD TYPE: FULLTEXT
 WORD COUNT: 433

Carcinogenesis , "O6-methylguanine-DNA methyltransferase (MGMT)
 Page 11

10553948a.txt

repairs inappropriately methylated guanine residues in DNA.
MGMT promoter methylation and gene silencing are common events in
colorectal cancer, and may or may not co-exist with the CpG island
methylation phenotype (CIMP)." "To date, no study has examined the
relationship between MGMT promoter...

...MGMT in colorectal cancer. Our data provide compelling evidence for
common susceptibility for MGMT promoter CpG island methylation."
Ogino and colleagues published their study in Carcinogenesis (MGMT germline
polymorphisms associated...